



2834
#7/Revoca.
P/a
Hawkins
3/21/02
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Tooru OOIWA

Application No.: 09/960,735

Filed: September 24, 2001

Docket No.: 111334

For: ROTARY ELECTRIC MACHINE AND METHOD FOR MANUFACTURING THE
SAME

SUBMISSION OF POWER OF ATTORNEY BY ASSIGNEE

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Enclosed is a Power of Attorney by Assignee to be made of record in the above-
identified application.

In the event of any nonpayment or improper payment of a required fee, the
Director is authorized to charge or to credit OLIFF & BERRIDGE, PLC Deposit Account No.
15-0461 as required to correct the error.

Respectfully submitted,

James A. Oliff
Registration No. 27,075

Thomas J. Pardini
Registration No. 30,411

JAO:TJP/kaw

Date: February 15, 2002

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

**DEPOSIT ACCOUNT USE
AUTHORIZATION**

Please grant any extension
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PATENT APPLICATION RECEIVED

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POWER OF ATTORNEY BY ASSIGNEE

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Denso Corporation is the Assignee of the entire right, title and interest in the patent applications identified in the attached Appendix A by virtue of Assignments recorded at the locations identified in the Appendix. Additionally, Denso Corporation is the Assignee of the entire right, title and interest in the following seven patent applications for which Assignments have been filed, but the original Assignments, indicating the dates and reel and frame numbers of recordation, have not yet been returned:

| <u>U.S. Patent Application No.</u> | <u>Filed</u> | <u>Inventors</u> |
|------------------------------------|----------------|------------------------|
| 09/879,035 | June 13, 2001 | Hironao YAMAGUCHI |
| 09/885,163 | June 21, 2001 | Keiji TAKAHASHI et al. |
| 09/912,301 | July 26, 2001 | Nakato MURATA et al. |
| 09/918,826 | August 1, 2001 | Masami NIIMI et al. |
| 09/922,691 | August 7, 2001 | Tadatoshi ASADA |
| 09/903,494 | July 13, 2001 | Naoto IWATA et al. |
| 09/873,410 | June 5, 2001 | Shigenobu NAKAMURA |

Copies of the Recordation Cover Sheets and executed Assignments as filed for these applications are attached hereto.

The undersigned is authorized to act on behalf of Denso Corporation; has reviewed the evidentiary documents in the chain of title; and certifies that to the best of the Assignee's knowledge and belief, title is in the Assignee.

Denso Corporation hereby revokes all prior powers of attorney and appoints the following as attorneys of record with full power of substitution and revocation to prosecute this

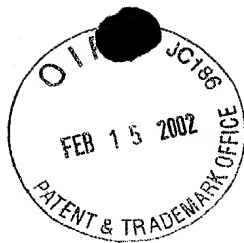
application and all continuations and divisions thereof, and to transact all business in the Patent and Trademark Office:

James A. Oliff, Registration No. 27,075;
William P. Berridge, Registration No. 30,024;
Kirk M. Hudson, Registration No. 27,562;
Thomas J. Pardini, Registration No. 30,411;
Edward P. Walker, Registration No. 31,450;
Robert A. Miller, Registration No. 32,771;
Mario A. Costantino, Registration No. 33,565;
Stephen J. Roe, Registration No. 34,463;
Joel S. Armstrong, Registration No. 36,430;
Christopher W. Brown, Registration No. 38,025;
Richard E. Rice, Registration No. 31,560; and
Paul Tsou, Registration No. 37,956.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION
SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA,
VIRGINIA 22320. TELEPHONE: (703) 836-6400.

February 14, 2002
Date

Masashi Kamiya
Signature
Typed Name: Masashi Kamiya
Title: General Manager



APPENDIX A

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| <u>U.S. Patent</u> <u>Application Serial</u> <u>No.</u> | <u>Filed</u> | <u>Oliff & Berridge.</u> <u>PLC Docket No.</u> | <u>Reel/Frame</u> <u>No.</u> |
|---|--------------------|---|---------------------------------|
| 09/538,983 | March 30, 2000 | 111267 | 010661/0135 |
| 09/758,169 | January 12, 2001 | 111277 | 011460/0868 |
| 09/777,699 | February 7, 2001 | 111281 | 011540/0141 |
| 09/788,426 | February 21, 2001 | 111282 | 011558/0650 |
| 09/837,382 | April 19, 2001 | 111287 | 011706/0632 |
| 09/849,274 | May 7, 2001 | 111290 | 011784/0710 |
| 09/878,247 | June 12, 2001 | 111291 | 011900/0317 |
| 09/883,204 | June 19, 2001 | 111293 | 011917/0398 |
| 09/883,205 | June 19, 2001 | 111294 | 011916/0601 |
| 09/899,054 | July 6, 2001 | 111297 | 011965/0421 |
| 09/935,695 | August 24, 2001 | 111307 | 012120/0029 |
| 09/940,648 | August 29, 2001 | 111310 | 012126/0801 |
| 09/940,797 | August 29, 2001 | 111311 | 012126/0951 |
| 09/948,581 | September 10, 2001 | 111313 | 012163/0692 |
| 09/949,753 | September 12, 2001 | 111314 | 012163/0229 |
| 09/950,057 | September 12, 2001 | 111315 | 012201/0554 |
| 09/808,364 | March 15, 2001 | 111316 | 011612/0898 |
| 09/935,696 | August 24, 2001 | 111318 | 012120/0318 |
| 09/599,422 | June 22, 2000 | 111327 | 010896/0961 |
| 09/803,979 | March 13, 2001 | 111332 | 011603/0287 |
| 09/960,735 | September 24, 2001 | 111334 | 012206/0462 |

U.S. Patent
Application Serial
No.

Filed

Oliff & Berridge,
PLC Docket No.

Reel/Frame
No.

| | | | |
|------------|------------------|--------|-------------|
| 09/521,604 | March 9, 2000 | 111336 | 010631/0795 |
| 09/574,451 | May 19, 2000 | 111337 | 010816/0493 |
| 09/891,349 | June 27, 2001 | 111344 | 012241/0693 |
| 09/773,262 | February 1, 2001 | 111348 | 012238/0216 |

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RECORDATION FORM COVER SHEET
PATENT APPLICATIONS & PATENTS ONLYTO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:
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TECHNOLOGY CENTER 2800

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Hironao YAMAGUCHI

3.

5.

7.

2.

4.

6.

8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☐ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)
☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST
☒ ORIGINAL ☐ FACSIMILE/PHOTOCOPY
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: June 1, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) June 1, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

| A. PAT. APP. NO.(S) series code/serial no | M# | 1 st INVENTOR if not in item 1 | B. PATENT NO.(S) | M# | 1 st INVENTOR if not in item 1 |
|--|--------|--|------------------|----|--|
| NEW APPLICATION | 281387 | | | | |

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
Intellectual Property Group
1100 New York Avenue, NW
Ninth Floor
Washington, DC 20005-3918

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 281387

30954

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

UNDER ORDER NO

30954

281387

MATTER NO.

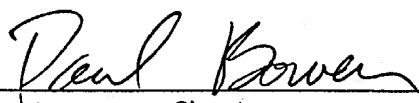
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MATTER NO.

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Signature

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Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/mjb

TEL: (202) 861-3014

Date: June 13, 2001

FAX: (202) 822-0944

FILE WITH PTO RETURN RECEIPT (PAT-103A)

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USA Patent Appln.
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Atty. Dkt. PW

M#

56600-US-AK/nh

Client Ref.

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1) Hironao YAMAGUCHI

(2)

(3)

(4)

(5)

☐ x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

DENSO CORPORATION

1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

TRANSFORMER DEVICE, HIGH-VOLTAGE GENERATING APPARATUS
HAVING THE SAME, AND LIGHTING SYSTEM HAVING THEM

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →
(Complete

line A, B and/or C)

(A) ☒ even date herewith

(B) ☐ on

(C) ☐ in U.S. Appln. No. / filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

DATE SIGNED

WITNESSES

1): Hironao Yamaguchi

June 1, 2001

Yoshitaka Sato

Name: Hironao YAMAGUCHI

2)

Name:

3)

Name:

4)

Name:

5)

Name:

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1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Keiji TAKAHASHI
3. Makoto TANIGUCHI
5.
7.

2. Toshinori MARUYAMA

4.
6.
8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1 Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

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☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST
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☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: May 31, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) May 31, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

| A. PAT. APP. NO.(S) series code/serial no | M# | 1 st INVENTOR if not in item 1 | B. PATENT NO(S) | M# | 1 st INVENTOR if not in item 1 |
|--|--------|--|-----------------|----|--|
| NEW APPLICATION | 281174 | | | | |

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
Intellectual Property Group
1600 Tysons Boulevard
McLean, VA 22102

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL x \$40 = \$40


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INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

P 281174 56656-US-SuS/sm
MATTER NO. CLIENT REF.

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Attorney: Paul T. Bowen

Reg. No. 38009

Date: June 21, 2001

Atty/Sec: PTB/mjb

TEL: (703) 905-2020

FAX: (703) 905-2500

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M#

56656-US

Client Ref.

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OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

| INSERT NAME(S) OF INVENTOR(S) | (1) Keiji TAKAHASHI | (2) Toshinori MARUYAMA |
|-------------------------------------|----------------------|---|
| | (3) Makoto TANIGUCHI | (4) |
| | (5) | <input type="checkbox"/> x box if continued on page 2 |

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

| INSERT NAME(S) OF ASSIGNEE(S) & ADDRESS(ES) | DENSO CORPORATION |
|--|-----------------------------|
| | 1-1 Showa-cho, Kariya-city |
| | Aichi-pref., 448-8661 Japan |

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

VOLTAGE REGULATOR OF VEHICLE AC GENERATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →

(Complete

line A, B and/or C)

(A) ☒ even date herewith

(B) ☐ on

(C) ☐ in U.S. Appln. No.

/

filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → →

The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

DATE SIGNED

WITNESSES

1):

Keiji TAKAHASHI

May/31/2001

Hiroshi Ishida

Name:

Keiji TAKAHASHI

2)

Toshinori Maruyama

May/31/2001

Hiroshi Ishida

Name:

Toshinori MARUYAMA

3)

Makoto Taniguchi

May/31/2001

Hiroshi Ishida

Name:

Makoto TANIGUCHI

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1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Nakato MURATA

3. Tsutomu SHIGA

5.

7.

2. Yoshiki TAN

4.

6.

8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO**2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:**

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO**3. NATURE OF CONVEYANCE (DOCUMENT):**(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)☒ ASSIGNMENT OF☒ WHOLE☐ PART INTEREST☒ ORIGINAL☐ FACSIMILE/PHOTOCOPY☐ CHANGE OF NAME☐ VERIFIED TRANSLATION☐ SECURITY ☐ MERGER☐ OTHER:EXEC. DATE: (1 & 2) July 12, 2001 and
(3) July 13, 2001

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4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

| A. PAT. APP. NO.(S) series code/serial no | M# | 1 st INVENTOR if not in item 1 | B. PATENT NO(S) | M# | 1 st INVENTOR if not in item 1 |
|--|---------|--|---|------------|--|
| NEW APPLICATION | 0282704 | | | | |
| 5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed: Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard McLean, VA 22102 | | | 6. NUMBER INVOLVED: APPLNS <u>1</u> + PATS <u>0</u> = TOTAL <u>1</u> | | |
| | | | 7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40 | | |
| 5.5 ATTY DKT: P 0282704 | | | 8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 | | |
| | | 57062-US-SuS/mk | UNDER ORDER NO | 030954 | 0282704 |
| MATTER NO. | | CLIENT REF. | dup. sheet not required | CLIENT NO. | MATTER NO. |

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Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/tel

TEL: (703) 905-2020

Date: July 26, 2001

FAX: (703) 905-2500

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McLean VA 22102

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Atty. Dkt. PW

M#

Client Ref.

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OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

| | |
|-------------------|---|
| (1) Nakato Murata | (2) Yoshiki Tan |
| (3) Tsutomu Shiga | (4) |
| (5) | <input type="checkbox"/> x box if continued on page 2 |

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

DENSO CORPORATION
1-1, SHOWA-CHO, KARIYA-CITY, AICHI-PREF., 448-8661 JAPAN

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF
INVENTION

BRUSH-LESS ROTARY ELECTRIC MACHINE HAVING STATOR COOLING ARRANGEMENT

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →

(Complete

line A, B and/or C)

(A) ☒ even date herewith

(B) ☐ on

(C) ☐ in U.S. Appln. No. / filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

DATE SIGNED

WITNESSES

1): Nakato Murata
Name: Nakato Murata
2) Yoshiki Tan
Name: Yoshiki Tan
3) Tsutomu Shiga
Name: Tsutomu Shiga
4) _____
Name: _____
5) _____
Name: _____

July 12, 2001
July 12, 2001
July 13, 2001

Hiroshi Akhida
Hiroshi Akhida
Hiroshi Akhida

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SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Masami NIIMI
3. Masahiro KATHO
5.
7.

2. Hideki ICHIKAWA
4.
6.
8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

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☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST
☒ ORIGINAL ☐ FACSIMILE/PHOTOCOPY
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION
☐ SECURITY ☐ MERGER ☐ OTHER:

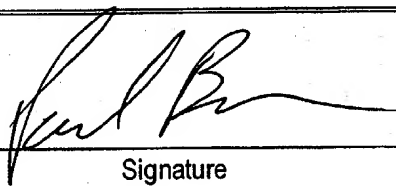
EXEC. DATE: (1) June 5, 2001
(2) June 11, 2001
(3) June 6, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) (1) June 5, 2001; (2) June 11, 2001; (3) June 6, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

| A. PAT. APP. NO.(S) series code/serial no | M# | 1 st INVENTOR if not in item 1 | B. PATENT NO(S) | M# | 1 st INVENTOR if not in item 1 |
|--|-------------|--|---|------------|--|
| NEW APPLICATION | 0281512 | | | | |
| 5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed: Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard McLean, VA 22102 | | | 6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL 1 | | |
| 5.5 ATTY DKT: P 0281512 | | | 7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40 | | |
| 57168-US-MRB/nh | | | 8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 | | |
| MATTER NO. | CLIENT REF. | | UNDER ORDER NO | 030954 | 0281512 |
| | | | dup. sheet not required | CLIENT NO. | MATTER NO. |

9.



Signature

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Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/tel

TEL: (703) 905-2020

Date: August 1, 2001

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

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1100 New York Avenue, NW
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Washington, DC 20005-3918

USA Patent Appln.
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For inventions made outside USA
executed with or after application

Atty. Dkt. PW

57168-US-
MRB/nh

M#

Client Ref.

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1) Masami NIIMI
(3) Masahiro KATOH
(5)

(2) Hideki ICHIKAWA

(4)

☐ x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

DENSO CORPORATION
1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

METHOD OF FABRICATING BRUSHES

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →
(Complete

line A, B and/or C)

(A) ☒ even date herewith
(B) ☐ on
(C) ☐ in U.S. Appln. No. / filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

DATE SIGNED

WITNESSES

1): Masami Niimi
Name: Masami NIIMI
2) Hideki Ichikawa
Name: Hideki ICHIKAWA
3) Masahiro Katoh
Name: Masahiro KATOH
4) _____
Name: _____
5) _____
Name: _____

June 5, 2001
June 11, 2001
June 6, 2001

Shinji Usami
Kenji Ogishima
Shinji Usami

**RECORDATION FORM COVER SHEET
PATENT APPLICATIONS & PATENTS ONLY**

TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Tadatashi ASADA

3.

5.

7.

2.

4.

6.

8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661, Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST
☒ ORIGINAL ☐ FACSIMILE/PHOTOCOPY
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: July 2, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (**NOTE:** IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) July 2, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

| A. PAT. APP. NO.(S) series code/serial no | M# | 1 st INVENTOR if not in item 1 | B. PATENT NO(S) | M# | 1 st INVENTOR if not in item 1 |
|--|---------|--|---|----|--|
| NEW APPLICATION | 0282680 | | | | |
| 5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed: Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard McLean, VA 22102 | | | 6. NUMBER INVOLVED: APPLNS <u>1</u> + PATS <u>0</u> = TOTAL <u>1</u> | | |
| 7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40 | | | 8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 | | |
| 5.5 ATTY DKT: P 0282680 | | | UNDER ORDER NO 030954 | | |
| MATTER NO. | | | CLIENT NO. | | |
| 57174-US-SuS/nh | | | CLIENT NO. | | |
| CLIENT REF. | | | MATTER NO. | | |

9.



Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/tel

TEL: (703) 905-2020

Date: August 7, 2001

FAX: (703) 905-2500

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For Inventions made outside USA
executed with or after application

Atty. Dkt. PW

57174-US-
SuS/nh

M#

Client Ref.

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

| | |
|---------------------|---|
| (1) Tadatoshi ASADA | (2) |
| (3) | (4) |
| (5) | <input type="checkbox"/> x box if continued on page 2 |

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

| |
|--|
| DENSO CORPORATION |
| 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan |
| |
| |
| |

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

VOLTAGE REGULATOR OF VEHICLE AC GENERATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →
(Complete

line A, B and/or C)

(A) ☒ even date herewith
(B) ☐ on _____
(C) ☐ in U.S. Appln. No. _____ / _____ filed _____

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

| INVENTORS | DATE SIGNED | WITNESSES |
|--|---------------------|-------------------------|
| 1): <u>Tadatoshi Asada</u> Name: <u>Tadatoshi ASADA</u> | <u>July 2, 2001</u> | <u>Hiroschi Asahida</u> |
| 2): _____ Name: _____ | _____ | _____ |
| 3): _____ Name: _____ | _____ | _____ |
| 4): _____ Name: _____ | _____ | _____ |
| 5): _____ Name: _____ | _____ | _____ |

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TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:

SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

 1. Naoto IWATA
 3. Masahiko NATUME
 5. Nobuhiko NAGAI
 7. Kunihiro KODAMA

 2. Masayoshi FUJITA
 4. Yoshiaki MIZUNO
 6. Mitsutoshi MIYAZAKI
 8. Toshiji KONDOU
ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Denso Corporation

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref. 448-0029 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)
☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST
☐ ORIGINAL ☒ FACSIMILE/PHOTOCOPY
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: 27 and 28 May 1998

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

| A. PAT. APP. NO.(S) series code/serial no | M# | 1 st INVENTOR if not in item 1 | B. PATENT NO.(S) | M# | 1 st INVENTOR if not in item 1 |
|--|--------|--|------------------|----|--|
| Div. of 09/092,646 | 281099 | | | | |

5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

 Pillsbury Winthrop LLP
 Intellectual Property Group
 1600 Tysons Boulevard

McLean, VA 22102

5.5 ATTY DKT:

P 281099

U3-9812-YK-B

MATTER NO.

CLIENT REF.

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL

1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL x \$40 = \$40

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

UNDER ORDER NO

60388

281099

dup. sheet not required

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MATTER NO.

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Signature

Attorney: Kenneth M. Fagin

Reg. No. 37,615

Atty/Sec: KMF/ml

TEL: (703) 905-2066

Date: July 13, 2001

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

| | | | |
|-----|------------------|----------------------------------|-----------------|
| (1) | Naoto IWATA | (4) | Yoshiaki MIZUNO |
| (2) | Masayoshi FUJITA | (5) | Nobuhiko NAGAI |
| (3) | Masahiko NATUME | [X] x box if continued on page 2 | |

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

DENSO CORPORATION

of 1-1, Showa-cho, Kariya-city, Aichi-pref. 448-0029 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF
INVENTION

IMPROVED METHOD FOR MACHINING SLOTS IN MOLDING DIE

for which the undersigned executed an application for Letters Patent of the United States of America:

NOTE →→

(Complete
line A, B and/or C)

(A) ☒ even date herewith

(B) ☒ on May 27 and 28, 1998

(C) ☐ in U.S. Appln. No. / filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE →→ The undersigned hereby authorize(s) Cushman Darby & Cushman Intellectual Property Group of Pillsbury Madison & Suto, of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

| | INVENTOR(S) | DATE SIGNED | WITNESSES |
|-------|-------------------------|------------------|-------------------------|
| 1) | <u>Naoto Iwata</u> | <u>27-May-98</u> | <u>Junichi Iio</u> |
| Name: | Naoto Iwata | | |
| 2) | <u>Masayoshi Fujita</u> | <u>28-May-98</u> | <u>Keiji Sakai</u> |
| Name: | Masayoshi Fujita | | |
| 3) | <u>Masahiko Natume</u> | <u>28-May-98</u> | <u>Keiji Sakai</u> |
| Name: | Masahiko Natume | | |
| 4) | <u>Yoshiaki Mizuno</u> | <u>28-May-98</u> | <u>Junichi Iio</u> |
| Name: | Yoshiaki Mizuno | | |
| 5) | <u>Nobuhiko Nagai</u> | <u>27-May-98</u> | <u>Yoshitaka Kuroda</u> |
| Name: | Nobuhiko Nagai | | |

IF ADDITIONAL INVENTORS, check box ☒ and continue on page 2.

ASSIGNMENT (Continued from page 1)

LISTING OF ADDITIONAL INVENTORS

INSERT
NAME(S) OF
INVENTOR(S)

| | | |
|------|---------------------|------|
| (6) | Mitsutoshi MIYAZAKI | (11) |
| (7) | Kunihiro KODAMA | (12) |
| (8) | Toshiji KONDOU | (13) |
| (9) | | (14) |
| (10) | | (15) |

SIGNATURES OF ADDITIONAL INVENTORS/WITNESSES/DATES SIGNED

| <u>INVENTOR(S)</u> | <u>DATE SIGNED</u> | <u>WITNESSES</u> |
|--|--------------------|-----------------------|
| 6) <u>Mitsutoshi Miyazaki</u> Name: Mitsutoshi Miyazaki | <u>27-May-98</u> | <u>Hisashi Kayano</u> |
| 7) <u>Kunihiro Kodama</u> Name: Kunihiro Kodama | <u>27-May-98</u> | <u>Hisashi Kayano</u> |
| 8) <u>Toshiji Kondou</u> Name: Toshiji Kondou | <u>28-May-98</u> | <u>Keiji Sakai</u> |
| 9) _____ Name: _____ | _____ | _____ |
| 10) _____ Name: _____ | _____ | _____ |
| 11) _____ Name: _____ | _____ | _____ |
| 12) _____ Name: _____ | _____ | _____ |
| 13) _____ Name: _____ | _____ | _____ |
| 14) _____ Name: _____ | _____ | _____ |
| 15) _____ Name: _____ | _____ | _____ |

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SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Shigenobu NAKAMURA

3.
5.
7.2.
4.
6.
8.ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST
☒ ORIGINAL ☐ FACSIMILE/PHOTOCOPY
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: August 30, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) August 30, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

| A. PAT. APP. NO.(S) series code/serial no | M# | 1* INVENTOR if not in item 1 | B. PATENT NO(S) | M# | 1* INVENTOR if not in item 1 |
|--|--------|---------------------------------|-----------------|----|---------------------------------|
| 09/873,410 | 281269 | | | | |

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:Pillsbury Winthrop LLP
Intellectual Property Group
1600 Tysons BoulevardMcLean, VA 22102
Tel: (703) 905-2000

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL = 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 281269

56021/US-SuS-nh

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

UNDER ORDER NO

30954

281269

MATTER NO.

CLIENT REF.

dup. sheet not required

CLIENT NO.

MATTER NO.

9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.



Signature

10. Total number of pages including this
cover sheet, attachments and document
(do not file dup. Cover sheet)

2

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/vaw

TEL: (703) 905-2020

Date: October 1, 2001

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

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NONPROVISIONAL

ASSIGNMENT
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NONPROVISIONAL

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INSERT
NAME(S) OF
INVENTOR(S)

(1) Shigenobu NAKAMURA

(2)

(3)

(4)

(5)

☐ x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

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& ADDRESS(ES)

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1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

BRUSHLESS AC GENERATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →
(Complete

line A, B and/or C)

(A) ☐ even date herewith

(B) ☒ on June 5, 2001

(C) ☐ in U.S. Appln. No. / filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

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INVENTORS

DATE SIGNED

WITNESSES

1): Shigenobu Nakamura August 30, 2001 Hiroshi Ishida
Name: Shigenobu NAKAMURA
2) _____
Name: _____
3) _____
Name: _____
4) _____
Name: _____
5) _____
Name: _____